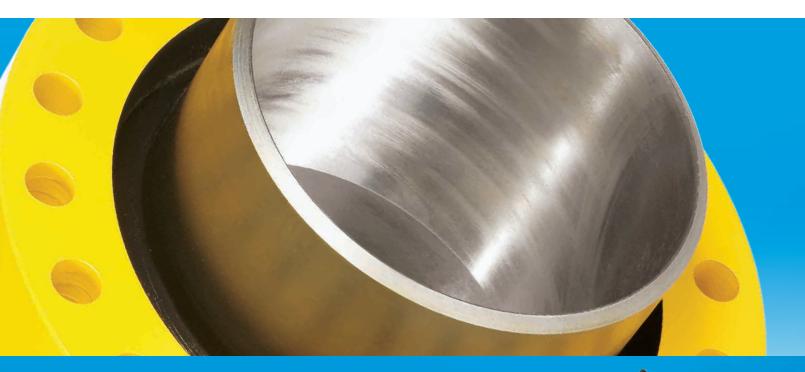
SUBSEA PIPELINE TECHNOLOGY FlangeMate Misalignment Connector



FlangeMate Misalignment Connector

The Oil States - QCS **FlangeMate Misalignment Connector (FMF)** is a highly engineered product that facilitates connection of flanged tie-ins for underwater pipelines. This connector is designed to reduce time and cost to complete connections without sacrificing long-term operational integrity.

Oil States - QCS has installed FlangeMate Misalignment Connectors in sizes from 4" to 56". Stock inventory sizes available from 4" to 30" for expedited delivery.





SUBSEA PIPELINE TECHNOLOGY FlangeMate Misalignment Connector

Key Benefits

- Angular adjustment of ±10° (20° total misalignment)
- Bolt hole rotation enables fast alignment and bolt insertion
- Repeatable, integral metal-to-metal seal
- Integrated annulus test port and seal test feature
- Enhanced wiper seal system isolates the metal seal area from contaminants
- Accommodates high-capacity flange spreader loading
- ASME compliant

Applications

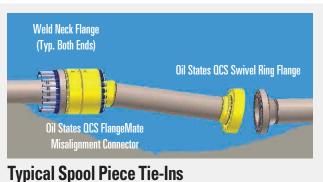
• Pipeline repair operations - shallow water, diver assist

Services

- Engineering design
- Testing FAT, SIT design qualification
- Coatings
- Installation technical assistance

About Oil States - QCS

A division of Oil States Industries, Inc., Houston-based Oil States - QCS designs, manufactures and markets proprietary deep and shallow water pipeline connectors for subsea pipeline construction, repair and expansion projects.



FlangeMate x Swivel Ring Spool

Provides bolt hole alignment and limited angular alignment.



Recommended Option

FlangeMate x FlangeMate Spool Provides bolt hole alignment and maximum angular alignment.





OIL STATES - QCS MANUFACTURING, ENGINEERING, & SALES

7250 W 43rd Street, Suite 100 Houston , Texas 77092 USA Tel +1 713 920-9800 Fax +1 713 920-9801 SALES OFFICES: Europe & Eurasia OIL STATES - FRANCE 5 Allée des Mésanges 13012 Marseille, France Tel +33 491 95 60 51

Iel +33 491 95 60 51 **OIL STATES - AZERBAIJAN** Suite 5, 1 F. Amirov Street Baku, AZ1000 Azerbaijan Tel/Fax +994 125 981 125 Asia OIL STATES - SINGAPORE 42-H Penjuru Road Singapore 609158 Tel +65 6773 7555 Fax +65 6773 7667

Africa & Middle East OIL STATES - NIGERIA No. 50C Glover Road Ikoyi, Lagos, Nigeria Tel +234 1 2718363 Fax +234 1 2718364

OIL STATES - UAE (MENA) Jumeirah Lakes Towers, Cluster F HDS Tower, unit 2209 Dubai, United Arab Emirates Tel +971 4 452 8482 Fax +971 4 368 8403

www.oilstates.com

South America OIL STATES - BRAZIL

OIL STATES - BRAZIL O2 Corporate & Offices, Ed. Evolution III Bloco 2, Sala 105 Av. Paisagista José Silva de Azevedo Neto, No. 200 Barra da Tijuca, RJ, Brazil CEP 22775-056 Tel +55 21 3503 2400